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NEW PLANET (*Lutetia*)

Discovered at Paris by M. Hermann Goldschmidt.

1852.	Paris M.T.	R.A.	Decl.
	h m	h m s	° ′
Nov. 15	10 0	2 41 0	+ 12 34
16	11 45	2 40 5	12 32
17	10 30	2 39 55	+ 12 30

NEW PLANET (*Calliope*)

Discovered at Mr. Bishop's Observatory, by Mr. Hind.

1852.	Green. M.T.	App. R.A.	N.P.D.
	h m s	h m s	° ′ ″
Nov. 16	12 32 0	5 13 37·5	65 30 7
17	11 51 52	5 12 49·38	65 26 44·5
18	8 46 30	5 12 5·51	65 22 33·2

MASSILIA.

Hamburg. (M. C. Rümker.)

1852.	Hamburg M.T.	R.A.	L. Fact. Par^{x}.	Decl.	L. Fact. Par^{x}.	Comps.	Comp^{d} Star.
	h m s	° ′ ″		° ′ ″			
Oct. 26	8 32 33·8	355 53 76·8	9·1069 *n*	−1 26 56·7	9·9133	8	*i k*
	9 22 7·6	55·7		62·2	9·9134		Mer. Cir.
Nov. 6	8 7 31·3	355 10 46·4	8·8600 *n*	1 50 21·9	9·9154	4	*i*
	8 36 0·2	41·2		15·6	9·9154		Mer. Cir.
12	9 35 8·6	355 9 34·5	9·3236	1 53 14·8	9·9152	8	*i k*
13	8 8 28·5	10 38::		52 53·3	9·9157		Mer. Cir.
15	10 28 9·6	15 9·3	9·5527	51 59·8	9·9136	13	*i k*
19	6 37 8·7	27 56·4	9·2490 *n*	47 56·8	9·9142	6	*i k*
23	7 11 23·1	48 0·6	8·7211 *n*	40 22·0	9·9145	11	*i k*
24	5 56 4·0	355 53 39·8	9·3671 *n*	−1 38 29·9	9·9137	5	*i k*

Mean Places of Compared Stars for Jan. 0, 1852.

	R.A.	Decl.
	h m s	° ′ ″
i	23 40 7·00	−1 34 58·9
k	23 40 36·90	−1 35 45·3

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FORTUNA.

Durham. Fraunhofer Equatoreal. (Mr. W. Ellis.)

1852.	Green. M.T.	R.A.	Log $\frac{p}{P}$	N.P.D.	Log $\frac{q}{P}$	No. of Comps. of R.A.	No. of Comps. of N.P.D.	Set.
	h m s	h m s		° ′ ″				
Aug. 29	12 19 55·9	22 16 17·24	+7·715	98 11 16·8	−9·9476	6	3	1
30	9 49 43·9	15 30·63	−8·273	16 18·2	9·9433	8	4	2
	11 42 9·9	26·48	−6·602	44·3	9·9484	6	3	3
31	12 5 2·8	14 31·77	+7·627	22 29·4	9·9485	18	6	4
Sept. 1	13 1 0·9	13 37·67	8·156	28 20·4	9·9462	18	6	5
	13 43 26·6	36·04	+8·318	32·2	9·9427	6	2	6
2	10 38 43·8	12 51·02	−7·939	33 27·3	9·9484	18	6	7
3	13 16 58·9	11 53·59	+8·262	98 39 37·3	9·9449	30	6	8
	13 55 40·4	51·86	8·378	44·4	9·9410	18	6	9
	14 34 49·3	50·55	8·459	55·2	9·9360	18	6	10
7	11 44 50·6	8 36·66	7·814	99 1 17·5	9·9506	18	6	11
	12 48 25·4	35·21	8·227	35·0	9·9469	12	3	12
9	13 43 51·0	22 6 57·78	+8·417	99 12 24·2	−9·9403	4	2	13

The observations were made with the wire micrometer, and are corrected for refraction. The corrections for parallax are represented by *p* and *q* as usual; P being the Equat. Hor. Parallax.

Assumed *Mean* Places of the Stars of Comparison, 1852, January 1.

Star.	R.A.	N.P.D.	Set.	Authority.
	h m s	° ′ ″		
36 Aquarii	22 1 37·16	98 54 41·8	11	Greenwich 12-year Catalogue.
Weisse XXII, 143	7 45·53	99 7 50·1	12, 13	Weisse's Catalogue.
θ Aquarii	9 1·19	98 31 6·2	6, 10	Greenwich 12-year Catalogue.
Weisse XXII, 223	11 21·16	32 12·7	9	Mean of Weisse's and Rümker's Catalogue.
ϱ Aquarii	12 24·49	33 43·7	4, 5, 7, 8	Greenwich 12-year Catalogue.
Weisse XXII, 397	22 18 48·27	98 7 38·0	1, 2, 3	Weisse's Catalogue.

Remarks.

Set 1, 6, 12. The observations interrupted by clouds.

— 2, 3. Cloudy, and very windy; at times putting the telescope in vibration.

— 13. Observed during a short break in the clouds on a cloudy and windy night.

Oxford. Ring Micrometer.

1852.	Greenwich M.T.	497ˢ·8 × Δ.	App. R.A.	Par. in R.A.	App. N.P.D.	Par. in N.P.D.	Comps.
	h m s	m s	h m s	s	° ′ ″	″	
Sept. 1	12 48 15·7	− 9 46·3	22 13 38·23	+0·10	98 28 13·3	−6·3	9 with *h*
2	11 51 52·1	9 46·8	12 48·29	0·03	33 39·0	6·3	15 with *h*
3	13 20 43·1	9 47·2	11 53·45	0·15	98 39 31·5	6·2	10 with *h*
10	12 3 17·3	9 52·8	22 6 15·59	0·09	99 17 9·8	6·2	14 with *i*
Oct. 2	11 12 12·2	10 44·5	21 55 37·59	0·14	100 41 46·6	5·8	4 with *k* & *l*
5	11 25 1·3	−10 55·1	21 55 17·19	+0·16	100 47 30·6	−5·6	12 with *l*

The above observations are corrected for refraction; they were made by Mr. Norman Pogson.

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Mean Places of the Stars of Comparison for 1852·0.

	R.A.	N.P.D.
	h m s	° ′ ″
h = B.A.C. 7784 (ϱ Aquarii)	22 12 24·55	98 33 41·2
i = Weisse XXII, 143	22 7 45·59	99 7 43·3
k = Weisse XXI, 1333 = 43044 Lalande	21 57 41·94	100 36 48·1
l = 42928 Lalande	21 53 56·86	100 35 8·6

HAVERHILL. Equatoreal. (Mr. W. W. Boreham.)

1852.	Greenwich M.T.	R.A.	Log P^s.	N.P.D.	Log P″.	Obs.	Star.
	h m s	h m s		° ′ ″			
Aug. 26	10 11 25·5	22 19 1·04	−9·1996	97 53 50·9	−0·8654	10	*a*
27	9 37 53·3	18 9·90	9·2936	97 59 16·7	0·8630	10	*b*
31	9 6 10	14 39·53	9·3213	98 21 39·7	0·8632	7	*c*
Sept. 1	10 11 58·5	13 43·82	9·0567	98 27 36·3	0·8698	10	*c*
3	9 12 36·5	12 2·55	9·2711	98 38 38·0	0·8662	10	*c*
8	9 52 35·5	7 51·64	8·9907	99 6 17·6	0·8731	10	*d*
9	8 55 36·5	7 6·32	9·2527	12 17·8	0·8692	8	*e*
11	10 38 21	5 32·41	7·9964	23 2·3	0·8762	7	*e*
12	10 0 46	4 49·93	8·7906	28 2·8	0·8758	5	*e*
13	9 47 36	22 4 7·81	−8·8776	99 32 57·5	−0·8758	5	*e*

$\frac{P}{\Delta}$ = The parallax in seconds of time in R.A. and in seconds of arc in N.P.D. where Δ is the distance of the planet from the earth.

The observations are corrected for refraction.

Mean Places for 1852·0 of the Stars of Comparison.

		R.A.	N.P.D.
		h m s	° ′ ″
a	Weisse xxii, 397	22 18 48·27	98 7 38·1
b	B.A.C. 7804	15 46·36	97 56 25·0
c	— 7784	12 24·55	98 33 41·0
d	— 7773	9 1·07	98 31 5·3
e	— 7774	22 9 3·57	99 47 33·6

HAMBURG. (M. C. Rümker.)

1852.	Hamburg M.T.	R.A.	L. Fact. Par^x.	Decl.	L. Fact. Par^x.	Comp.	Comp^d Stars.
	h m s	° ′ ″		° ′ ″			
Oct. 24	7 46 30·1	329 57 20·2		−10 47 45·8	9·9549		Mer. Cir.
26	7 39 46·1	330 14 20·0		10 45 30·2	9·9548		Mer. Cir.
Nov. 6	6 23 35·7	332 15 8·0	9·0319*n*	10 13 23·0	9·9520	5	*g*
12	8 58 19·0	333 41 26·5	9·5164	−9 47 37·0	9·9432	6	*h*

Apparent Places of Computed Stars.

	R.A.	Decl.
	h m s	° ′ ″
g	22 7 46·03	−10 20 49·3
h	22 12 46·45	− 9 47 16·9

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EUNOMIA.

Hamburg. (M. C. Rümker.)

1852.	Hamburg M.T. h m s	R.A. ° ′ ″	L. Fact. Parx.	Decl. ° ′ ″	L. Fact. Parx.	Comps.	Compd Star.
Nov. 6	11 10 8·5	80 4 35·0	9·7335 *n*	+37 30 50·1	9·5884	13	*p q*
12	10 14 4·0	79 5 42·0	9·7787 *n*	37 23 47·9	9·6271	4	*r s*
13	9 11 23·3	78 54 37·7	9·8409 *n*	37 22 6·6	9·7023	13	*t*
15	11 48 12·5	78 28 22·5	9·5194	37 17 23·3	9·5012	15	*u*
19	7 53 13·7	77 35 38·7	9·8659 *n*	+37 6 12·3	9·7644	12	*v w z*

Apparent Places of Compared Stars for Date of Comparison.

	R.A. h m s	Decl. ° ′ ″		R.A. h m s	Decl. ° ′ ″
p	5 20 5·51	+37 31 18·9	*u*	5 14 39·55	+37 14 31·3
q	20 45·41	41 27·4	*v*	9 7·56	8 50·5
r	14 39·46	14 30·8	*w*	9 16·18	7 41·7
s	14 57·39	21 40·9	*z*	5 10 43·22	+37 16 52·7
t	5 14 57·40	+37 21 41·2			

HYGEIA.

Durham. Fraunhofer Equatoreal. (Mr. W. Ellis.)

1352.	Green. M.T. h m s	R.A. h m s	Log $\frac{p}{P}$	N.P.D. ° ′ ″	Log $\frac{q}{P}$	No. of Comps. of R.A.	No. of Comps. of N.P.D.	Set.
Oct. 23	11 57 57·2	4 49 4·92	−8·456	64 2 46·77	−9·7345	18	6	1
	12 41 56·6	3·71	8·341	48·48	9·7110	18	6	2
24	9 42 21·3	4 48 42·71	−8·616	64 3 9·72	−9·8225	15	6	3
	15 34 7·8	36·66	+7·998	14·47	9·6860	12	4	4
	15 52 21·9	36·16	+8·123	……	…	12	…	5
25	10 58 58·6	4 48 15·89	−8·542	64 3 40·27	−9·7666	18	6	6

The observations were made as usual with the wire micrometer, and are corrected for refraction. The corrections for parallax in time and arc, which are to be applied to the R.A. and N.P.D., are represented by *p* and *q*. P = Equat. Hor. Parallax.

Assumed *Mean* Places of the Stars of Comparison, 1852, January 1.

Star.	R.A. h m s	N.P.D. ° ′ ″	Set.
No. 109 of Bessel's Zone 396	4 49 10·52	64 8 42·81	2, 3, 5, 6
No. 110 — — —	4 50 30·73	63 58 39·81	1, 4

Set 3. Interrupted by clouds.
— 5. R.A. comparisons only taken; the nearly vertical position of the telescope so near the meridian renders the observations rather difficult.

The above are all the observations of *Hygeia* obtained in the month of October; they are reduced at present, provisionally, using the places of the stars as given by Bessel's Zone Observations. A more correct reduction will hereafter be made, Professor Challis having kindly undertaken to reobserve the two stars.